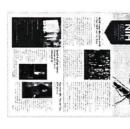
NIAID's Lane Discusses WHO COVID-19 Mission to China | NIH Record

### NIH RECORD

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VIEW FROM OUTBREAK ORIGINS

# to China NIAID's Lane Discusses WHO COVID-19 Mission

BY CARLA GARNETT

he get to Beijing? appointment as a member of the WHO team needed to start immediately. How soon could novel coronavirus outbreak was first discovered—had just been approved and Lane's when he got an urgent email. A World Health Organization mission to China—where the Dr. Cliff Lane was at Dulles International Airport waiting in line to board a flight to Tokyo

even as he heard the boarding announcement for his flight. drug that had been studied in the recent Ebola outbreak in the Democratic Republic of the accelerate a research response in the area of therapeutics? Remdesivir, a novel antiviral gone out to the international medical community. Was there anything NIH could do to second largest city. Rates of infection and illness were rising fast on board and a call had headed to a coronavirus trouble spot—a cruise ship docked at a port in Yokohama, Japan's led to the first cases of a serious respiratory illness now called COVID-19. Lane was already It was Feb. 13, a little more than 6 weeks since coronavirus infection in Wuhan, China, had Congo (DRC), was being floated as a potential treatment. That's where Lane's head was too,



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going." were only a few people "because I knew that there that I would be selected [for China]," he recalled, "It wasn't even on my radar

emerging infectious disease special clinical studies unit, with Ebola successfully Pham, a nurse and patient beaming NIH'ers waving a ago, he was among the pathogens. About 6 years stranger to deadly and special projects, is no director for clinical research NIH, Lane, NIAID's deputy which was established to Research Center's new treated in the Clinical very public farewell to Nina Of course, after 41 years at conduct research on an



developed a Clinical Center protocol. There's a coronavirus that causes SARS and a NIH's recent history with novel infections. "SARS was the first outbreak for which we "This goes back to SARS [severe acute respiratory syndrome]," said Lane, detailing some of

clinical research program on coronaviruses. We have been able to jumpstart some of the coronaviruses that cause the common cold. Ever since SARS [in 2003], NIAID has had a coronavirus that causes MERS [Middle East respiratory syndrome]. There are also current research from that basis."

opportunity to experience and learn virtually at a disease's Ground Zero. But first, there of the AIDS epidemic. The WHO summons to China, too, represented an incredible underway in the DRC. He was also on the front lines of HIV research back in the early days and in parts of West Africa such as Guinea, Sierra Leone and Liberia. Currently, a study is Over the past decade, Lane's group has conducted several clinical trials on Ebola virus here

was Tokyo.

with other governments are important and we needed to honor that...So I'm basically "I really felt I had an obligation to the Japanese government," Lane said. "Our relationships "Getting a visa to China is a challenge in calm, usual situations," he continued. "Doing line up all the things that needed to be done [during] the entire flight to Tokyo working through all the different time zones trying to

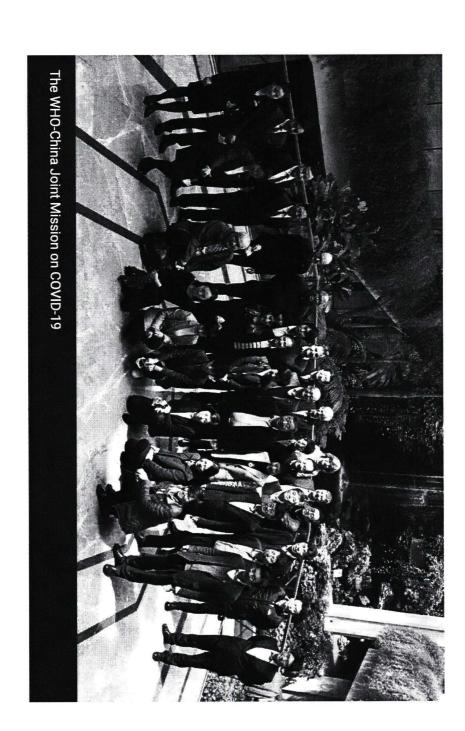
remarkable in itself." helping. It was an amazing number of entities working together. By the time I landed in embassies in China and Japan, the WHO and the Ministry of Foreign Affairs in China all WHO pitching in. It was NIH pitching in. It was the State Department, including the U.S. something like that in an emergency takes an enormous amount of coordination. It was Japan, I headed straight to the Chinese Embassy in Japan to get a visa to China. That was

national (China) and international planning on next steps in the response to the ongoing The WHO-China Joint Mission on COVID-19 had one overall goal: "To rapidly inform

preparedness for geographic areas not yet affected," according to the mission's report. outbreak of the novel coronavirus disease (COVID-19) and on next steps in readiness and

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was one of two Americans. Nigeria, Russia, Singapore and South Korea. Lane, on his first official WHO assignment, WHO group included experts from several countries including Canada, Germany, Japan, Twenty-five members formed the group—half from China and half representing WHO. The



The diagnostics person was from Russia." the research response. Others represented epidemiology, infection control and diagnostics from different geographic areas as well as a diversity of skill sets. I was there representing "It was a really good group of people to work with," he said. "[WHO] tried to select people

prior to his WHO role). The WHO delegation traveled from Beijing to Shenzhen and Prevention at the national, provincial and municipal levels hospitals, community centers and China's equivalent of the U.S. Centers for Disease Control Guangdong, and from there to Guangzhou. The group had briefings by political leaders, The mission took about 9 days (tack on 3 extra for Lane, who rerouted himself from Japan

he self-quarantined for 2 weeks after coming home. 19. He was temperature-screened at each airport in Japan and China, and for safety's sake A smaller mission contingent that didn't include Lane visited Wuhan, epicenter of COVID-

He shared notable observations from his travels

to the hotel and was not allowed into his hotel without one. He was given a mask at the hotel entry's fever checkpoint before being allowed to go to the reception desk to check in. wearing a mask except me," he said. He noted the same thing on the bus from the airport "The first thing I noticed at the boarding gate to the flight to China is that everybody's

saw in China, we may have to go to as extreme a degree of social distancing to help bring response and I think they felt a fair degree of pride in what they had done...From what I learned they wanted to share with the rest of the world. It demonstrated their successful measures they put in place appeared to be working—I think they felt there were lessons "When we got there, the outbreak was already coming under control in China. The "The Chinese were managing this in a very structured, organized way," he explained

our outbreak under control."

The world has experienced and endured pandemics before, so what makes COVID-19 unique?

For one thing, Lane explained, it is caused by a new virus and thus we are not entirely sure what to expect. "Typically, when we think of a respiratory virus, we think common cold, flu, MERS and SARS. The clinical syndrome of [COVID-19] is somewhere in that spectrum, but where it fits—in terms of its transmissibility, its pathogenicity or lethality—that's all being learned on the fly," he said. "It is a brand new virus—that's the thing about it...While you can guess a bit from the past, you really have to learn from the present."

Dexterity, agility and flexibility are all key in infectious diseases research, Lane said.

elements is the ability to turn on a dime and respond in an instant." environments...Also one of the great virtues of the Intramural Research Program and its adapting assays to new pathogens and establishing clinical trials in austere respond to this outbreak. We have staff throughout the institute who are very skilled at "The tools we developed to rapidly respond to Ebola outbreaks have been used to rapidly

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clinical research response to COVID-19. Microbiology and Infectious Diseases is conducting, NIH is playing an important role in the In fact, Lane noted, through an international clinical study that the NIAID Division of

"We have an active protocol to test the efficacy of the investigational antiviral agent

disease zones? Does the risk of getting infected himself ever concern Lane as he rushes into various the CC to participate in that protocol [see sidebar below]." remdesivir," he said, "and I anticipate as this outbreak unfolds, we will admit patients to

seeing a patient in the Clinical Center with drug-resistant TB as I do about going to China to any direct contact with patients. We were in hospitals, but in areas where they were doing go to where the infectious diseases are. We know about infection control. I did not have but this is what you sign up for when you go into this career path. I worry as much about fever checks before anyone entered the areas. There's some risk to anything that one does, "It's what we do," he said. "That's part of our mission. We study infectious diseases, so we

look at COVID-19."

the case with Ebola. When you take the proper precautions and pay attention to detail, you "before they had a sense of what was evolving. Health care worker infections are now rare can substantially minimize the risk to the health care worker." in China, and these are the people directly taking care of the patients. The same has been Health care worker infections in China occurred early in the outbreak, he continued

Still, he said, coronavirus is not to be taken lightly. "China adopted extreme socialdistancing policies and the Chinese scientific community has been contributing

substantially as well—including rapidly identifying and sequencing the virus and making the sequences publicly available.

one can get over the political hurdles." art. There's so much going on there that I think they could be a valued scientific partner, if benefit," Lane concluded. "The cities, hospitals and laboratories in China are state-of-thecommunity as a whole and the U.S. research community as a whole, that could be of "If there were more opportunities for collaboration between the Chinese research

rapid control of the outbreak, Lane observed. "That's a good lesson. There are probably other individuals at risk they're even a little bit sick is not in the best interest of public health and puts the health of lessons that everyone could take for influenza as well. People coming in to work when China demonstrated that rapid implementation of extreme social distancing led to fairly

care enough about your coworkers to minimize their risk of infection." The issue is, you go to work and you infect your coworkers. It's a matter of whether you issue of the individual being tough enough to work through the illness. That's not the issue respiratory disease," he said, "but everyone has to take personal responsibility. It's not an "The lesson going forward is that there are ways you can prevent the spread of a

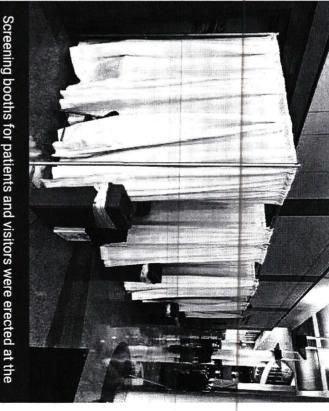
## Says Clinical Center Prepared to Deal with Coronavirus Patients, Gilman

BY DANA TALESNIK

As cases continue to surge nationwide, the Clinical Center is well equipped to take care of coronavirus patients, said Clinical Center CEO Dr. James Gilman.

"We have the facilities to take care of the patients, but our fundamental mission is research so that's the backdrop for anything else that happens here," he said.

Supporting NIH researchers as they work toward bringing treatments and a vaccine from bench to bedside, the Clinical Center is currently one site of a multi-center clinical trial of a potential drug for coronavirus



entrance to the Clinical Center on Mar. 12. It became mandatory, later in the month, for everyone to be screened.

PHOTO: RICH MCMANUS

a randomized, controlled NIAID clinical trial of the antiviral remdesivir. patients. The hospital began accepting such patients on Mar. 24, when two research participants began

and masks anterooms where staff can safely put on and remove personal protective equipment such as gowns of 11 rooms in strict, airborne isolation: 7 in the special clinical studies unit and 4 inpatient rooms. These rooms meet optimum quarantine standards: negative pressure to outside air, HEPA filters and In preparation for this eventuality, the CC recently took stock of its quarantine capacity. There are a total

Gilman, adding that there are additional, negative-pressure rooms that could house patients. "Eleven is the number of patients, in terms of our facilities, that we could take care of the best," said operations."

other national emergency, said Gilman. 9/11 and renewed ever since, fosters an even greater exchange in the event of a natural disaster or should the need arise during this viral pandemic. An agreement among the three hospitals, drafted after and Suburban Hospital, may expand that relationship to take in some of their coronavirus patients At the local level, the CC, which often collaborates with Walter Reed National Military Medical Center

Suburban or Walter Reed," he said "We have contingency resources for taking care of patients who may have to come to us from

the pace to that of a critical military operation. multiple meetings daily, making quick decisions and problem-solving as they go along. Gilman likened The hospital's leadership has been preparing for this pandemic at a precipitous pace. They engage in

of time in the Department of Defense taking care of young men and women [injured in battle], but I've would say that the pace here equals that of even the most well-organized military exercises and never been through anything like this," he said. "I have a lot of experience with military operations and I "I've been a physician over 40 years, and I've been through some pretty interesting times, including a lot

is updating its visitor policy every few days to help protect patients and staff while providing optimal patient care. One such change In addition to preparing for coronavirus patients and protocols, the CC is making significant changes

should we have to," said Gilman. "We've begun to tighten the visitor policy significantly, with the idea that we will tighten it even further

As of mid-March, the CC was limiting each inpatient, even children, to one visitor at a time

vulnerable patients but also our staff. "It cuts down on the number of people we have to screen," said Gilman, "and helps protect not only our

policy became mandatory for all entrants to Bldg. 10 later in the month]. Staff who have a fever or other And, since Mar. 13, all patients and visitors entering the CC are screened for symptoms at the door [this NIH...Turning Discovery Into Health®

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coronavirus symptoms first get screened by the Occupational Medical Service; some then get tested

and staff," said Gilman. "Our department of laboratory medicine has done a great job of developing the ability to test patients

"We will do whatever the NIH, HHS or national leadership decides," he concluded

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